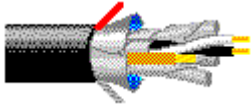



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## FULL TECHNICAL SPECS



### 1493A Composite - Power Limited Tray Cable 300 Volts

Total # Cond.		# Pairs			
9		4			
AWG	Stranding	Type	Insulation	Insulation Thickness (in.)	Shield
16	(7x24)	BC - Bare Copper	PVC - Polyvinyl Chloride	.01600	Individual/Overall Aluminum Foil-Polyester Tape
Jacket	Jacket Thickness (in.)	Nom. Core OD (in.)	Nom. OD (in.)	Nom. Cond. DCR (Ohms/M')	Nom. Cap. (pF/ft)
PVC - Polyvinyl Chloride	.0550	.4060	.5160	14.700	60.000

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#### Description

Multi-Conductor, Composite, 4 pairs (16 AWG, stranded (7x24) BC - Bare Copper conductors, PVC - Polyvinyl Chloride insulation, Individual Aluminum Foil-Polyester Tape (Beldfoil) shield with 18 AWG stranded (7x26) tinned copper drain wire) plus 1 communication wire (22 AWG, stranded (7x30) BC - Bare Copper conductors, PVC - Polyvinyl Chloride insulation), Overall Aluminum Foil-Polyester Tape (Beldfoil) shield with AWG stranded (7x24) tinned copper drain wire, 100% shield coverage, sunlight resistant PVC - Polyvinyl Chloride jacket with nylon ripcord. Applicable Specifications: UL PLTC, ITC or CMG or C(UL) CMG, FT4, IEEE 1202. Flame Resistance: UL 1581 Vertical Tray Flame Test. Power Limited Tray Cable. Industrial Automation & Process Control Cables. Other insulation and jacket options are available. These cables are suitable for installation in wet or dry locations. Cable jackets are sunlight resistant, impervious to moisture and vapor penetration, and non-propagating. Alternate conductor color coding is available as a special order. Multiple pair cables have each pair numbered for ease of identification. Individually shielded and overall shielded - individually shielded pairs with an overall shield are recommended for use in instrument and control applications where optimum noise rejection is required. Individual pair shields are fully isolated from each other and contain a separate drain wire for grounding, to provide maximum protection from crosstalk and common mode interference. Cables with an overall shield provide additional electrostatic noise protection. BELDFOIL is a Belden registered trademark.

Disclaimer: Great effort is made to ensure the accuracy of the information presented, but errors or omissions may occur. This listing of information is presented as a courtesy and does not ensure that a product with these specifications is available. Specification and availability should be confirmed with a call to our sales representative or to Customer Service. Have a question? Call us at 1-800-BELDEN-1 or send us a [comment](#)

12/03/02

TECHNICAL DATA

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To display Technical Data, enter a Product Code and press Go.

Product Code

Go

Example: 9269

Product Search

TECHNICAL DATA

04-20-00 REV. 5

1493A

I. DESCRIPTION:

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POWER LIMITED TRAY CABLE - 4 PAIRS + COMMUNICATION WIRE  
PAIRS ARE 16 AWG (7X24) BARE COPPER, PVC INSULATION,  
INDIVIDUALLY BELDFOIL SHIELDED W/ 18 AWG (7X26) TINNED  
COPPER DRAIN WIRE, COMMUNICATION WIRE IS 22 AWG (7X30)  
BARE COPPER, PVC INSULATION, OVERALL BELDFOIL SHIELD  
W/16 AWG (7X24) TINNED COPPER DRAIN WIRE, PVC  
JACKET WITH A NYLON RIPCORD.

II. ELECTRICAL CHARACTERISTICS:

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MAX. OPERATING VOLTAGE: 300 V RMS  
NOM. CONDUCTOR DC RESISTANCE  
@ 20 DEG. C (16/22 AWG): 3.67/14.7 OHMS/1000'  
NOM. SHIELD DC RESISTANCE  
@ 20 DEG. C:  
(INDIVIDUAL): 5.07 OHMS/1000 FT.  
(OVERALL): 3.14 OHMS/1000 FT.  
NOM MUTUAL CAPACITANCE @ 1 KHZ: 60 PF/FT (CALCULATED)

III. PHYSICAL CHARACTERISTICS:

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TEMPERATURE RATING: -30 TO +105 DEG. C  
INSULATION MATERIAL: PVC  
JACKET MATERIAL (COLOR): PVC (BLACK) - SUN RES  
TYPE SHIELDS AND % COVERAGE: POLY/AL FOIL; 100%  
MAX. PULLING TENSION: 420 LBS. ESTIMATED

NOM. WEIGHT/1000 FT.:	173 LBS. ESTIMATED
MIN. BEND RADIUS:	5.2" ESTIMATED
CABLE DIAMETER:	.512" ESTIMATED
APPLICABLE SPECIFICATIONS:	UL PLTC, ITC OR CMG OR C(UL) CMG, FT4, IEEE 1202
COLOR CODE:	BLACK & WHITE WITH NUMBERS ORANGE COMM WIRE
FLAME RESISTANCE:	UL 1581 VERTICAL TRAY FLAME TEST